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The common abstraction of XML Schema by unranked regular tree languages is not entirely accurate. To shed some light on the actual expressive power of XML Schema, intuitive semantical characterizations of the Element Declarations Consistent (EDC) rule ...

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Although the advent of XML Schema [25] has rendered DTDs obsolete, research on practical XML optimization is mostly biased towards DTDs and tends to largely ignore XSDs (some notable exceptions non-withstanding). On the underlying reasons is most ...

4 [Taxonomy of XML schema languages using formal language theory](#)[Makoto Murata, Dongwon Lee, Murali Mani, Kohsuke Kawaguchi](#)

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On the basis of regular tree grammars, we present a formal framework for XML schema languages. This framework helps to describe, compare, and implement such schema languages in a rigorous manner. Our main results are as follows: (1) a simple framework ...

**Keywords:** XML, interpretation, schema, tree automaton, validation5 [Inferring XML schema definitions from XML data](#)[Geert Jan Bex, Frank Neven, Stijn Vansummeren](#)

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